DOCUMENT RESUME

CE 004 489 ED 110 696

Dickson, Helen K., Comp. AUTHOR

You and the Work World of Math: Packets of TITLE

Mathematics with Career Orientation.

INSTITUTION

South Dakota Career Education Project, Watertown. NOTE 8p.: Not available in hard copy due to marginal

reproducibility of original document

EDRS PRICE MF-\$0.76 Plus Postage. HC Not Available from EDRS.

Elementary Secondary Education: *Instructional DESCRIPTORS Materials: Learning Activities: Mathematical Enrichment: *Mathematics: *Mathematics Materials;

*Practical Mathematics; *Relevance (Education)

ABSTRACT

The collection of projects and exercises is designed to acquaint students with some practical applications of mathematics. The exercises are of varying length, and are oriented about the following topics and projects: home landscaping; architectural home planning; construction; home food production; personal income; banking; spending (budgeting, catalog shopping, home furnishing, comparative home shopping, and quantity purchasing); vacation planning: and opinion polling. (PR)

*********************** Documents acquired by ERIC include many informal unpublished * materials not available from other sources. ERIC makes every effort * * to obtain the best copy available. nevertheless, items of marginal * reproducibility are often encountered and this affects the quality * * of the microfiche and hardcopy reproductions ERIC makes available * via the ERIC Document Reproduction Service (EDRS). EDRS is not f * responsible for the quality of the original document. Reproductions f ** supplied by EDRS are the best that can be made from the original. **********************

THIS DOCUMENT HAS ZEEN REPRO-DUCED EXACTLY AS *ECEIVED FROM THE PERSON OR ORGANIZATION ORIGIN-ATING IT POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRE-SENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

YOU

AND THE WORK WORLD

OF MATH

Packets of Mathematics with Career Orientation



phage?

2

11:

YOU

and the Work World

of Math

A Career Orientation

Packets of Mathematics Watertown School District #1 Watertown, South Dakota 57201

Contributing Teachers

Merlin Smart Lille Frantz

Occupational Information and Compilation

Helen K. Dickson

South Dakota Career Education 120 Third Street Southwest Watertown, South Dakota 57201

VIEW



YOU

and the Work World

of Math

TABLE OF CONTENTS

|--|

You and Architectural Home Planning "Improving Your Home"

You and Home Landscaping "Lawns and Yards"

You and Construction as a Hobby "Building a Birdhouse"

You and Home Food Production
'Let's Make A Dessert"

You and Your Income "Getting Paid"

You and Your Bank

You and Spending

<u>AWARENESS</u>

Beginning Competency Measurement Architecture

Beginning Competency Measurement Drafting Landscaping

Measurement Construction

Beginning Competency
Measurement
Cooking

Economic Awareness Pay Checks

Economic Awareness Checking Accounts Savings Accounts

Economic Awareness
Setting Up a Budget
Catalog Shopping
"Shop Without Going Shopping"

Furnishing Your Home
"Furnishing a Kitchen"

Comparative Home Shopping "Comparing Prices"

Quantity Purchasing "Buying in Quantity"

Vacation Planning "What a Vacation"



YOU and the Work World of Math

YOU
and Architectural Home Planning
"Improving Your Home"

ERIC TO THE PROVIDENCE OF THE COMMENT OF THE COMMEN

Related

Occupational Information

to Accompany

"Improving Your Home"

Cluster 11 SCIENCE, ENVIRONMENT, & ENGINEERING

Architect DOT 001.081

An architect plans and designs many types of buildings. It is the architect's job to make them safe, useful, and beautiful. An architect must follow certain laws when drawing a building to be sure it is very safe and strong.



C

Prerequisite: Area Multiplication of Fractions

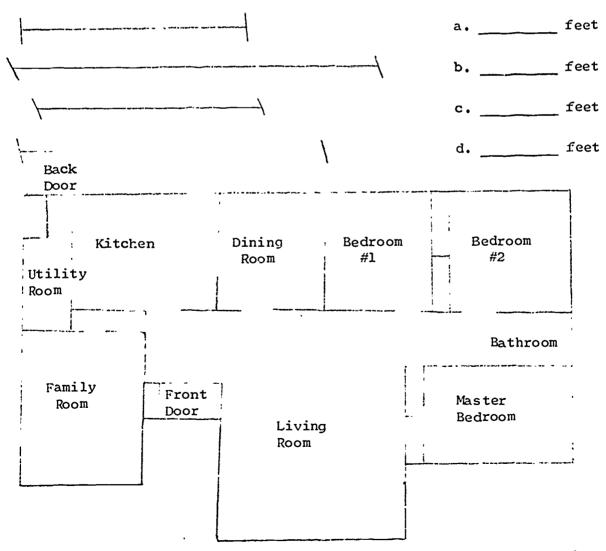
Improving Your Home

In order to construct a house or a building, the construction workers need to follow a plan--called a floor plan. Do you know who draws these plans?

That's right, an architect draws the plans for a building. An architect is concerned with more than just the placement of rooms. He must deal with lighting, heating, water connections and electrical hook-ups.

In this packet you will be working with just room sizes and the arrangement of rooms. We will leave the more complex things for another time. In this packet you will use the given floor plan to find out information that will help you carpet some of the rooms and paint some of the rooms. A scale drawing of the house is given. It would take too much paper and it would be too impractical to have a drawing which would be the exact size of the building. For the following plan, one centileter will represent four feet. One half centimeter would represent how many feet? The answer is two feet.

Before looking at the floor plan, measure the following lines. Then tell how many feet each line represents. Remember, one centimeter means four feet.





Answer the following using the diagram: .

- 1. What are the dimensions of the master bedroom? (Don't count the closet.)
 - 2. If you wanted to buy some carpet for the master bedroom, you would need to figure the area of the room in square yards, since one must buy carpet by the square yard.

The dimensions of the master bedroom are 16' x 12'. These dimensions must be changed to yards. How many square yards of carpet is needed? Show how you arrived at your answer.

- 3. What are the dimensions of bedroom #1? ______ If you wanted to carpet that bedroom, how many yards of carpet would it take? _____ The owner of the home found some beautiful carpet for this room. If the carpet sold for \$8.50 a square yard, how much would it cost to carpet the room with this rubber-backed carpet? _____
- 4. If you wanted to carpet the family room, how many square yards of carpet would be required?
- 5. Figure out how many square yards of carpet would be needed to carpet the kitchen.
- 6. If you wanted to use the same carpeting in both the kitchen and family room, which room would be more expensive to carpet?
- 7. How much would it cost to carpet the family room, if the carpet cost \$9.00 a square yard?
- 8. Suppose you wanted to paint the ceiling of the dining room white.

 How many square test of ceiling would need to be painted?

 Contact your paint dealer to help you figure the amount of paint you need to paint the ceiling. How many quarts would be required.
- 9. Would a quart of paint be enough to paint the ceiling of the bathroom?

 If the pint of paint cost \$1.59, how much would it cost to buy the paint needed for the bathroom?

 (It is impractical to buy less than one pint of paint.)

Clue! You may want to call the man at the paint shop to get information to help you on this part of the project!



YOU and the Work World of Math

YOU

and Home Landscaping

"Lawns & Yards"

ERIC Fronted by ERIC

Related

Occupational Information

to Accompany

YOU and Home Landscaping

"Lawns & Yards"

Cluster 11 SCIENCE, ENVIRONMENT, & ENGINEERING

Draftsperson DOT .281

A draftsperson takes drawings and ideas and makes them into complete working plans for building many things. A civil draftsperson designs bridges, roads, and tunnels. A mechancial draftsperson draws many kinds of machines.

Landscape Architect DOT 019.081

A landscape architect makes land areas pretty and useful. They plan, design, and arrange parks, highways, school yards, college campuses, and yards for houses. They may plan where trees, bushes, shrubs, ponds, and sidewalks should go.

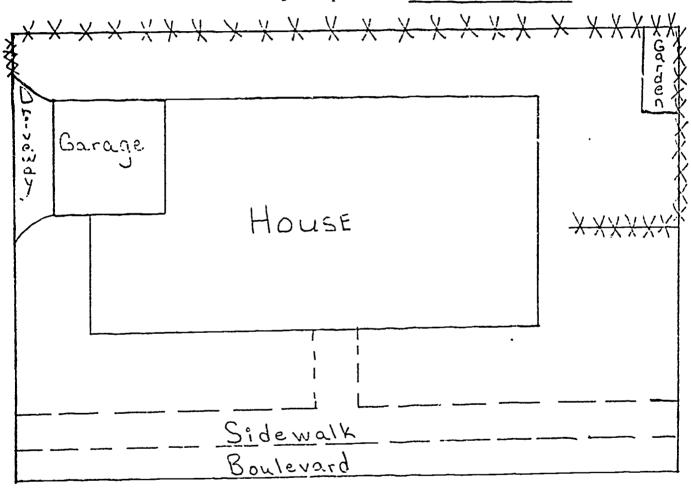


Prerequisite: Perimeter and Area

Lawns and Yards

In large cities many people live in huge apartment buildings, so they have no lawn or yard. In South Dakota, most people have a lawn and yard. In this packet you will be figuring out some things about lawns and yards.

Look at the following diagram. It is a scale drawing of a person's lot. Enh centimeter represents 5 feet. For instance, if a line is 6 centimeters in length, it would represent 30 feet. How many feet would a line 10 centimeters in length represent?



Answer the following question referring to the diagram.

| 1. | List the dimensions of the lot. If you wanted to run around the edge of your lot to get some exercise, how far would you run |
|----|--|
| | each time you went around the lot? feet. To run one thousand feet, would you need to run more than 6 times around? |
| | To run a mile (5,280 feet), you would need to run around |
| | the lot how many times? |



| ۵. | mulat are the dimensions of the garden. |
|------|--|
| 3. | How wide is the sidewalk? |
| 4. | What are the dimensions of the garage? |
| 5. | The owner of this property wants to fence in part of the lot. The "X"'s on the diagram show where the fence will be. How long will the fence be? Go to a lumber yard or to Montgomery Wards or J.C. Penney's or to a hardware store and pick out the kind of fence you would put up. Write a short description of the type of fence you would use. |
| What | How much does this fence cost for a yard length of it? would be the cost to put up the fence shown in the diagram? |
| 6. | For some reason the grass in the boulevard did not grow. The owner hauled in some new dirt. He is going to fertilize and plant new grass seed. It is your job to buy the seed a lifertilizer. You will need to figure out the area of the boulevard so you will know how much grass seed to buy. What is the area of the boulevard? square feet. Now, go to a lawn store or hardware store. Look for grass seed. Which store(s) did you go to? Write out the name of the grass seed you would buy. How much would it cost you to get enough for the boulevard? What brand of fertilizer would you buy? To fertilize the boulevard, how much would it cost? How much would you have spent to buy both the fertilizer and lawn seed? |
| 7. | To keep children from running into the garden the owner put up a picket fence around the two sides of the garden which weren't already fenced in. If the picket fence comes in 2 1/2 foot sections, now many sections would be needed? If each section sells for \$.89, what would it cost to buy the needed fence? |
| 8. | To keep the lawn looking better, the owner edges along both sides of the sidewalk. How many feet does he need to edge? If he can edge 25 feet in a 1/2 hour, would it take him more than 4 hours to do the work? |
| and | It may surprise you that math can even help you in doing your lawn garden work. |



YOU

and the Work World of Math

YOU

and Construction as a

Hobby

"Building a Birdhouse"

Construction



Related

Occupational Information

to Accompany

"Building a Birdhouse"

Situation:

If it were impossible for you to contruct a birdhouse, and you wanted one, you would probably purchase one in a store or order one made by a carpenter.

Cluster 12 TRADES

Carpenter

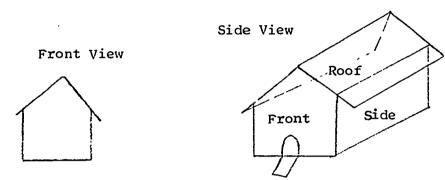
A carpenter uses wood to build many things like houses, cabinets, and boat docks. One works with saws, hammers, nails, screws, glue, and many other things. Some carpenters work on the outside of house making the framework. Others work inside the house putting on trim, doors, and windows.



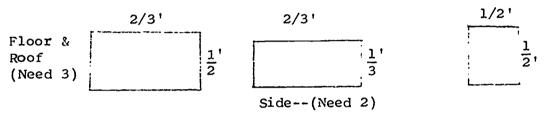
Building a Birdhouse

Has anyone ever called you a "birdbrain"? Don't feel bad, everyone acts like a bird sometimes. For this project you will contruct a birdhouse. You can use scrap lumber from a lumber yard or just scraps of wood you have at home.

The following are diagrams of two views of the birdhouse.

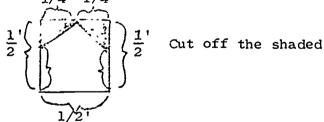


The following are diagrams of the different walls of the house.



Use the following steps as you build the birdhouse:

- 1. Cut the boards needed for the house. Seven boards will be needed in all.
- 2. Cut the front and back boards as shown below in the diagram. 1/4, 1/4



- 3. Cut a U-shaped door in the front wall. The door should not be more than $\frac{1}{4}$! high or 1/6! wide.
- 4. Assemble the house, using small nails to hold the sides together. Be sure you use the proper board in the right place. Don't use one of the roof boards as a side board.
- 5. Attach a popsicle stick or small twig to the bottom front of house to be used as a perch for * bird. .
- 6. Sand the birdhouse slightly, using sandpaper.
- 7. Paint the birdhouse using whatever color of paint you desire.



Problems:

| 1. | How much lumber would it take for the two sides? |
|----|--|
| 2. | How much lumber would it take for the floor? |
| 3. | To build the roof, how much wood would be needed? (Remember there ar two pieces of wood for the roof.) |
| 4. | How much lumber would it take for the front and back walls? (Do not worry about the corners that were cut off the front and the back walls. Pretend they were not even cut off.) |
| 5. | Now that you know how much lumber you needed for each part of the house, answer the following question. If you were to go to the lumber yard and buy a 2' x 2' piece of 1/18" plywood, would that be enough wood to build the birdhouse? |
| 6. | How much more wood is needed to build the roof than to build the two sides? (Refer to numbers 3 and 1 above). |



YOU and the Work World of Math

YOU
and Home Food Production
"Let's Make a Dessert"



Related

Occupational Information

to Accompany

"Let's Make a Dessert!"

Situation:

If it were impossible for you to understand cooking measurements you would probably have your desserts catered by a bakery.

Cluster 8 PERSONAL SERVICE

Baker DOT 526.781

A baker may own a bakery or may work for a big company. A baker mixes and bakes bread, rolls, cakes, and cookies. One may decorate special cakes and cookies. Sometimes a baker has helpers who wash bowls and tools, wait on customers, and operate the mixing machines.



Let's Make a Dessert!

Suppose you are planning dessert for 12 people and you are going to use the following recipe. Show how you would alter the measures to make the recipe large enough to yield 12 servings.

Note: Key for abbreviations for measures:

c. cup

pts. pints

t. teaspoon

T. Tablespoon

qt. quart

The recipe is:

Blueberry Crunch

2 pts. blueberries (washed and stemmed)

l c. sugar

½ c. all-purpose flour

1 t. cinnamon

t. salt

2 T. lemon juice

2 c. plain 100% natural cereal

½ c. margarine (melted)

Preheat oven to 350°. Combine blueberries, sugar, flour, cinnamon, salt, and lemmon juice in a large bowl; toss lightly to mix. Spoon into a l_2^1 qt. shallow baking dish. Mix cereal and margarine in a medium bowl. Sprinkle over blueberry mixture. Bake 40 minutes, or until juices bubble up and topping is toasted. Serve warm or cold with cream. Yield: 6 servings

I. Rewrite the recipe to yield 12 servings.

Now that you have rewritten the recipe, increasing the portions of the ingredients, how much did you increase the portions?

How long will you bake the dessert after revising the recipe?

Now bake this yummy dessert. Good Luck! and Good Eating!



Try this recipe for another tasty dessert or lunch break. This recipe serves eight, but, for your project, you will increase the amounts of the ingredients so it will serve twelve.

The recipe is:

Green Apple Cake

l c. raw apples (chopped)

1/2 c. shortening (You may use Crisco or Spry)

1/2 c. shortening (You may use Crisco or Spry)

1/2 c. nutmeats (chopped)

Measure and sift together flour, soda, cinnamon, cloves, nutmeg, salt. Set aside.

Next, mix the sugar and shortening. Add the egg and mix until well blended.

Add the apples, dates, and nuts and mix well Pour this into an 8" x 12" greased and floured pan. Bake in an 350 oven for 50 minutes or until the center of the cake is firm to the touch. Now, call in some friends and enjoy a delicious treat. Good Luck!

Answer the following questions.

| 1. How much did you increase the portions? | |
|--|--|
|--|--|

- 2. What mathematic process did you use to increase the measures?
- 3. Will you increase the baking time like you did the amounts of the ingredients to make a larger cake?



YOU

and the Work World of Math

YOU

and Your Bank

"Checking Accounts"
"Savings Accounts"



Related

Occupational Information

to Accompany

"Getting Paid"

Cluster 2 BUSINESS, MARKETING & OFFICE OCCUPATIONS

Bank Teller

DOT 212.368

Bank tellers work in a bank and help people who come in to make deposits, cash checks, or take out some money. They must keep very exact records of the money that comes in and out, so customers know just how much money they have.



Getting Paid

When you get older, you will have a job. Every week or month you will receive a check. If you look carefully at the amount of your check, you will discover it is less than you really earned. Before we discuss why that is true, let's find out how you can figure out how much you earn each week. The amount a person earns without anything taken out of your wages is called the gross salary.



When a payroll clerk decides how much a person who is paid by the hour earns per week in gross pay, the clerk must have the following information at hand:

- a. Total hours worked for the week
- b. A person's hourly rate

After these facts are established, the total number of hours worked should be multiplied by the hourly rate to find the gross pay.

EX: Jim Mattson works 40 hours per week. His hourly rate is \$2.25 per hour. What would his gross pay be for the week?

\$ 2.25 per hour

x 40

000

900

\$90.00 per week (gross pay)

Work the following problems by multiplying the hourly rate times the total hours worked per week. Use the first problem as an example.

Problem A.

Max works 40 hours per week, and earns \$ 3.00 per hour.

\$ 3.00 per hour

40 hours per week

0 00

120 0

\$120.00 per week (gross)

Problem B.

Jane works 35 hours per week, and earns \$2.00 per hour.



A PAYROLL CLERK'S WORK

Pretend that you are a payroll clerk and it is your work to figure gross pay. Please be careful and avoid mistakes.

| DAYS AND HOURS | PAY PER HOUR | GROSS EARNINGS |
|---|-----------------------|----------------|
| Monday to Wednesday | | |
| 8 hrs. per day Thursday 7 hrs. Saturday 4 hours | \$2.25 per hour | \$ |
| Monday to Friday | | |
| 8 hrs. per day 4 hrs. Saturday | \$2.75 per hour | \$ |
| Monday to Friday | | • |
| 8:00 - 5:00 | \$2.90 per hour | \$ |
| hour out for lunch | | |
| Monday to Friday | | |
| 8 hour day | \$3.10 per hour | \$ |
| | | |
| TRY MAKING A | PAYROLL YOURSELF HERE | |
| DAYS AND HOURS | PAY PER HOUR | GROSS EARNINGS |



YOUR PAYCHECK

It will not be many years before you are earning your own money, and supporting yourself. You will be paying for everything which your parents have paid for before.

The wages you will receive for your work will probably be in the form of a paycheck. Your check might look like this:

| WATERTOWN, S.DAK. FARMERS AND MERCHANTS BANK AN | D TRUST OF WATERTOWN, SOUTH DAKOTA | <u>78-873</u> 914 |
|--|--|----------------------|
| PAY TO THE ORDER OF | \$ | |
| RNOW YOUR ENDOUSER" REQUIRE IDENTIFICATION | | DOLLARS |
| ACCOUNT NUMBER | The second section of the second section of the second section of the second section s | |
| | | |

#0914m0873#

One always receives <u>less</u> in a paycheck than he/she earns. You will want to know why this is. It is because certain deductions are made from ones salary. Notice the labels on the entries below.

| Gross Salary | Income Tax | Social Security Insurance | Net Salary |
|---------------------|--|--|---------------------------------------|
| Total money earned. | Money taken out to support government. | Money saved toward health insurance payment for when you are sick, or too old to earn. | Amount to take home after deductions. |

ERIC Full Taxet Provided by ERIC

26

Take this quiz to see if you understand how to figure your net pay.

QUIZ

| 1. | The money that is taken out of your pay for taxes are called |
|-----|--|
| 2. | The deductions that are taken out of your pay (mandatory deductions) are: |
| | 1 |
| | 2 |
| | 3 |
| 3. | The largest single deduction from your pay will be |
| | |
| 4. | To figure net pay we must the total deductions from our |
| 5. | To find our total deductions we must all of the deductions together. |
| 6. | pay is more than pay. |
| 7. | The income tax is a tax on our |
| 8. | Other deductions that we can elect to have taken out of our pay each week are: |
| | |
| 9. | F.I.C.A. is another name for |
| | Another term for "net pay" is *********************************** |
| | Write the meanings for the following: |
| Net | pa y |
| | ss pay |
| | uctions |



Now that you are an expert on figuring net pay, ask one of your parents to show you his pay slip. Check to see if the net pay was figured correctly. Was the net pay figured correctly?

What is your opinion on the payroll deductions?

When you get a job, remember that you won't be able to spend as much as you have earned because of the deductions. When you stop to thing about having to pay the deductions, it is a way of forcing people to set aside money for expenses. When tax time comes people will be able to pay them since they have had to set aside some money each month. The same is true of social security. You are forced to pay social security (or F.I.C.A.) so that you will have some money saved when you retire.

Your Net Salary is often referred to as your take-home pay, It is the amount of money you have after all deductions are made from your Gross Salary.

Directions: Add all the figures in column 2, 3, 4 and deduct from the gross salary to arrive at your net salary or take-home pay.

| l. Gross Salary | 2. Income Tax | 3. Social Security | 4. Insurance | 5. Net Salary or Take-Home Pay |
|-----------------------|---------------------|--------------------------|--------------|---|
| \$75.00 | \$13,50 | \$1.50 | \$.39 | |
| 60.00 | 10.80 | 1.20 | •31 | |
| 98.00 | 17.64 | 1.96 | .60 | |
| 39.50 | 7.90 | •78 | .11 | |
| 100.00 | 18.00 | 2.00 | •45 | |

Checking Account

We need to learn to use the bank. Someday we shall want to put our money in the bank and get it out as we need it. This we can do by opening a checking account. To do this we must put money in the bank. This is called making a deposit.

In this project you will learn to make out deposit slips, to write checks, to withdraw money from your account, and keep records of your account.

Study the following examples and follow directions, carefully doing the exercises.



Checking Account

Writing a check:

When you are completing a check, you should be most careful to write it accurately so that the bank will cash it. Use ink, and sign it the way you signed your bank signature card, so that they will be able to tell at the bank that you were the true writer of the checks on your account. This makes your checks valid.

| | | · · · · · | . , | | ، معرر • | | |
|-----------------------|--------------------------|-------------|------------|-------------|------------|----------------|----------|
| | WATERTOWN, S. DAK. | | 3 | 19 | _No | 0 | ٠ |
| | | | | | | 78 - 87 914 | <u>3</u> |
| FARMERS | S AND MERCHANTS BANK | AND TRUST O | F WATERTOW | N, SOUTH DA | AKOTA | | |
| PAY TO THE ORDER OF | | | | | s 4 | | _ |
| (5) KNOW YOUR ENDORSE | R REQUIRE IDENTIFICATION | | | | D | OLLAR | s |
| : — | INT NUMBER | 6 | | | | | _ |
| | | | | | | | _ |

1:0914:08731

- 1. Check#
- 2. Complete date (Mo.-Day-Yr.)
- 3. Put in the name of the company or the person to whom you are writing the check.
- 4. Put in the amount of money. Like this -- \$5.42
- 5. Write out the amount of money. Like this--Five and 42/100.

 (Be sure that you start at the beginning of the line and spread out the entry so that no one can change it. You may need to use lines if the entry doesn't fill up the space.)
- 6. Sign your name on the signature card.

LOOK AT THE NUMBERS ON THE CHECK. THEY RELATE TO THE NUMBERS ON THE EXPLANATION ABOVE.



| If there are no cents, one might write it several ways: |
|---|
| . 00/100 no/100 |
| For \$8.00, you might write: Eight and 00/100 |
| Eight and no/100 |
| Try writing out these: |
| \$9.00 |
| \$12.00 |
| Remember that the very last thing to write on the check is the signature meaning your name. When one signs the signature card at the bank, it should be signed just the way you are going to write it on your checks so that the bank tellers may go to their file and find that your written name of the ckeck matches the signature on the card. Practice writing your name as you would on a signature card: |
| This is how a check might look after it is written out in full: |
| FARMERS AND MERCHANTS BANK AND TRUST OF WATERTOWN, SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF LOCAL ASSET TO SUBJECT OF WATERTOWN SOUTH DAKOTA PAY TO THE ORDER OF |
| KNOW YOUR ENDORSER REQUIRE IDENTIFICATION William String |
| ACCOUNT NUMBER |

1:0914008731

REMEMBER TO FILL UP THE WHO! E LINE FROM THE LEFT TO THE RIGHT SO THAT NO ONE CAN CHANGE YOUR CHECK.



Practice writing numbers the way you would on a check. You are actually practicing filling out the #4 space as on the check on the page before this one. This should be written out in numbers always.

Example:

\$100.99

Remember to start your numbers immediately after the dollar sign. 1. Ten and twenty-five cents \$. 2. Sixty dollars and no cents \$. . . . 3. Seventeen dollars and forty-five cents \$. 4. Fifty-three dollars and fifty cents \$. . 5. Two hundred dollars and ninety-two cents \$. . Next, let us practice writing out the money in words. The words one writes, must be the same as the numbers show. If I write \$5.25 in words, it will look like this -- something that combines words and numbers. Five and 25/100. In this part of the check, one is writing out the number of cents or the parts of one dollar. Fifty-five cents is written 55/100. Instructions to students: Write in words the following check amounts: \$ 23.55. • \$ 10.60. • \$ 28.69 . . \$ 5.09. . \$275.75. .



JUST IMAGINE

You are a man with a family and a home to support. Write the checks for your expenses.

 Mr. M. Carlson, a furnace repair worker. fixed the furnace for \$79.00. Write him a check.

| | WATERTOWN | .S.DAK | | | No | |
|---|---------------------|--------------|------------------------|-----------------------|-----------------|--------------------|
| : | | | -4000 | | | 78-873 914 |
| FARME | RS AND MERCHAI | nts bank and | TRUST OF WATE | RTOWN, SOUT | H DAKOTA | |
| PAY TO THE ORDER OF | | | | | _\$ | |
| | | | | | · | OLLARS |
| KNOW YOU | JR ENDORSER - REQUI | - | | | | |
| \$: 09}5;m0 | 873: | | | | | |
| Cook's Beauty public appears good permanent | nces in he | es person | al service She paid | s. Your \$19.36 to | daught Cook' | er make s for a |
| FARMER | WATERTOWN. | S.DAK. | TRUST OF WATER | 19 HTUO2 ,WWOTS | NO | 78 - 873 914 |
| PAY TO THE ORDER OF | •• | ··· — ··· · | | | .\$ | |
| | | | | | | |

120914008731

KNOW YOUR ENDORSER REQUIRE IDENTIFICATION

ACCOUNT NUMBER



2.

____DOLLARS

| WATERTOWN, S. DAK 19 NO. 78-873 914 FARMERS AND MERCHANIS BANK AND TRUST OF WATERTOWN, SOUTH DAKOTA PAY TO THE ORDER OF ORDER OF ANDW YOUR ENDOPSER REQUIR. IDENTIFICATION ACCOUNT NUMBER 1:0914:0873: | 3. | You hired a man to shovel your walks after a snowstorm, and paid him \$2.25. Write him a check. |
|--|----|---|
| FARMERS AND MERCHANTS BANK AND TRUST OF WATERTOWN, SOUTH DAKOTA PAY TO THE ORDER OF | | |
| PAY TO THE ORDER OF | | 78-873 914 |
| ORDER OF | | FARMERS AND MERCHANTS BANK AND TRUST OF WATERTOWN, SOUTH DANOTA |
| ANDW YOUR ENDOPSER REQUIN_ IDENTIFICATION ACCOUNT NUMBER | | |
| | | |
| | | |
| 1:0914m08731 | | (ACCOUNT NO NOZA , |
| | | 1:09 14 m 08 7 3 t 1 |
| 4. You needed new clothes to wear to your office. Write Williams Department Store a check for them for \$69.97. | 4. | |
| WATERTOWN, S. DAK 19 NO 78-873 914 FARMERS AND MERCHANIS PARK AND TRUST OF WAJERTOWN, SOUTH DAKOTA | | 78-873 914 |
| | | |
| OPDER OF | | |
| KNOW YOUR ENDOUSER REQUIRE IDENTIFICATION | | KNOW YOUR ENDOASER REQUIRE IDENTIFICATION |
| | | |
| ACCOUNT NUMBER | | ACCOUNT RUPBER |

1:0914.08731

ENDORSING A CHECK

When you get a check from a company or from a person, you should not hold it a long time, but cash it or deposit it in the bank.

When you cash a check, you need to turn it over, and place it perpendicular to you as you put a signature on the side which would be the left side of the check if it were lying horizontally on a desk.

When you put your signature on it, your name should be written exactly as it appears on the front of the check.

Here is a check written to John Doe:

FARMERS AND MENCHANTS EARLY MOUNT OF WHICH WAN SOUTH DAKOTA

PAY TO THE ORDER OF THE STORY AFOR A CENTUR CATION

DOLLARS

1:0914008731



Keeping a Record

Another very important part of a checking account is keeping a record. For each check you write, you will keep a record. Your check book will have a record sheet like the following example:

| CHECK | DATE | CHECK ISSUED TO | AMOUNT OF CHECK | V | DATE OF | AMOUNT OF DEPOSIT | BÄLÄNGE |
|-------|--|---|--------------------|-------|--|----------------------|---------|
| | | | 7.00 | | | 1 ! | |
| | | | | | . 3 | | |
| | | | | 1 | | | |
| | | | | +- | 1 | | |
| | | | | - - | | <u> </u> | |
| | | | | ┤~ | 1 | | |
| | | | | - - | | | |
| | | | | | | | |
| | <u> </u> | | | - - | | | ļ |
| | | | | _ | | | |
| | ! | | | _ _ | | | |
| | | | | | | <u> </u> | |
| | | | | | i | | |
| | | | | - | | | |
| | | | | - | | | |
| | | | | 1- | | | |
| | | | ! | | | , _ , | • • |
| | | | | - | · · | | |
| | | | | - | | | |
| | | | | | . | | |
| | | | | | . | | |
| | | | | 1. | Ĺ | | |
| | | | ! ! | | | : | |
| | 1 | | | | | | 1 |
| | 1 7 | غين ليامة الحالي بيستها المستود به المهارية ، « • « بينها بين » « « « « « « « « « « « « « « « « « « | į i | - - | | | 1 |
| | 1 1 | | F : | 1 | ' | | |

On this record sheet you put the same thing as you put on your check. There are three other things you will keep in this record. One is the amount of money you have in the bank. This is called the balance. You will, also, keep the amount you have added to your account along with the date you added it. This is the deposit to your balance in order to keep a record of the amount of money you have in the bank.



Each time you write a check you will subtract the amount of the check from the balance to obtain the new balance. You will know at all times how much money you have left in the bank.

Now enter each check you wrote in the above exercise in the checkbook record, being careful to include all the information asked for on the record sheet. Keep a current balance of your account.

The bank also keeps a record of your checks and deposits. Each month the bank will send you a copy of its record of your checking account. This is called a bank statement.



A Deposit Slip

When you get your check, you will probably put it into the bank for safe-keeping until you have to pay your bills. Then you will want to write checks on that account. This is the way a deposit slip looks.

CHECKING ACCOUNT DEPOSIT TICKET

in the Additions

FARMERS & MERCHANTS BANK & TRUST OF WATERTOWN, SOUTH DAKOTA 57201

| DATE TO TOUR THE | DOLLARS | CENTS |
|--|---------------|-------|
| CURRENCY | - | |
| CURRENCY | ٠, | |
| COIN COIN CO. | : | |
| CHECKS USE FACE SPACES | ··· | |
| | . , | i |
| - List in oir | ·~ | |
| inoit on | | į |
| 01/11/11 | | · |
| i lines and | | į |
| Full Straid into the | | |
| of the chack | 1 | 1 |
| 4 in the loller | | |
| ್ ವಾಗ ರಶ ಚಿತ್ರ | | _ |
| ومنسية ومنستاسه است | | _ |
| | | - |
| ma distribution and the | | |
| 1 | | |
| | | |
| • | | |
| · d | | |
| ļ,. | | 1 |
| 1, | | |
| • | | |
| | | |
|). | | |
|)) | | |
| :7 | | • |
|)) | | |
| , | | Ī |
| | | 1 |
| 79 | | |
| . 5" | | |
| TOTAL FROM CHEE SIDE | | |
| OZ ASTACHED LIST | | i |
| TOTAL | | |
| A DALLIN TO TALL | _ | |
| Chartenant | - | |
| Checks and other stams of details subject to the te | rms and cond | |
| tions of the bank's corec | tion agreemer | . : |



78 • 873 914

FARMERS & MERCHANTS BANK & TRUST OF "ATERTOWN, SOUTH DAKOTA 57201

| CURRENCY COIN CHECKS IIST EACH SLEARAIELY 1 2 3 4 4 5 6 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 27 28 29 20 20 20 21 21 22 23 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28 | |
|--|---|
| COIN CHECKS LIST FACH SLPARATELY 1 2 3 4 5 4 7 10 11 12 13 14 17 18 19 20 71 21 22 22 21 | |
| CHECKS LIST EACH SLPARATELY 1 2 3 4 4 5 6 7 10 11 12 13 14 15 16 17 18 19 22 22 22 | |
| 1 2 2 3 4 4 5 5 6 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7 8 | |
| 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |
| 3 4 4 5 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | |
| 10 11 12 13 14 15 16 17 18 | |
| 11 12 13 16 13 16 19 19 22 22 22 | |
| 11 12 13 16 13 16 19 19 22 22 22 | , |
| 11 12 13 14 15 16 17 18 19 20 21 22 22 | ! |
| 11 12 13 16 13 16 19 19 22 22 22 | |
| 11 12 13 16 13 16 19 19 22 22 22 | |
| 11 12 13 16 13 16 19 19 22 22 22 | · |
| 11 12 13 14 15 16 17 18 19 22 21 | , |
| 11 12 13 14 13 14 17 18 19 20 21 22 | : |
| 13 14 15 16 17 18 19 22 22 22 | : |
| 16 13 16 17 18 19 20 21 22 22 | , |
| 15 10 17 18 -9 20 21 22 22 | |
| 16 17 18 19 20 21 22 | |
| 19 18 19 20 20 21 22 | . — — — — — — — — — — — — — — — — — — — |
| 22 | 1 |
| 22 22 22 23 | |
| 22 22 22 23 | |
| 22 22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24 | |
|) 22 22 | |
| 22 24 25 | v |
| 75 | |
| 25 | |
| i | |
| . . | |
| 2' | |
| TOTAL FROM OTHER SIDE OR ATTACHED LIST | |
| Name and Assessment of the Party of the Part | |
| Kasa, TOTAL | |

Gines in the firm of the even of the deposition of the factor of the control of t

| Comp | lete | the | above | deposit | slip | with |
|------|------|-----|-------|---------|------|------|
| | | | | rewith: | · | |

Cash

\$50.00

Checks

4.50 Jack Pody

69.00 Art Jones

101.23 Tom Jackson

FARMERS & MERCHANTS BANK & TRUST
OF WATERTOWN, SOUTH DAKOTA 57201

| <u> </u> |
|---------------|
| İ |
| • |
| |
| |
| |
| |
| |
| - |
| |
| +- |
| |
| 1 |
| |
| |
| - |
| |
| |
| ļ |
| |
| • |
| |
| |
| i |
| |
| |
| |
| • |
| |
| |
| |

Crecks and or lections are received to: depositive, lect to the ferms and conditions of this banks collection agreement

Complete the above deposit slip using this information:

Cash

\$145.23

Checks

25.00 Jones Trucking

69.72 Jim's Plumbing

100.00 Ace Garage

CHECKING ACCOUNT

Bank statements contain a record of your deposits into the checking account, and your withdrawls from the account.

At the top of the bank statement is the name of the bank and the name and address of the account holder.

Bank Statement

Matthew J. Wilson 9 Elm Street Danville, Illinois

In account with First National of Danville

| Checks | | Deposits | Date | Balance |
|-----------|---------|-----------|-----------------|----------|
| | | Balance | Brought Forward | \$605.00 |
| \$100.00- | | | Jan. 2 '76 | 505.00* |
| 50.00- | | | Jan. 3 '76 | 455.00* |
| | | \$250.00+ | Jan. 8 176 | 705.00* |
| 24.00- | | | Jan. 9 '76 | 681.00* |
| 10.00- | | | Jan. 11'76 | 671.00* |
| 8.75- | | | Jan. 13'76 | 662.25* |
| 100.00- | 400.00- | | Jan. 15'76 | 162.25* |
| 18.50- | | 45.00+ | Jan. 17'76 | 188.75* |
| 14.25- | | | Jan. 19'76 | 174.50* |
| 2.00- | | | Jan. 21'76 | 172.50* |

On most real bank statements, the balance of an account like the one above may be influenced by service charges. These will appear on the statement as SC. The service charges cover many things such as:

Keeping Money

Keeping Record of Bank Account

Furnishing Check Books

Smaller banks sometimes do not charge a service charge. They hope people will use the services of their bank because they do not charge. This makes some city people willing to bank in the smaller town, and helps the bank increase its total deposits.

When a person receives a check, he/she cashes it. At the end of the month the bank statement and cancelled checks, sometimes called vouchers, are mailed. If you were keeping a checking account, check book, at the same time, you would be keeping check stubs, which would be duplicate information about what was written on the checks. The cancelled checks and the stubs are compared, and tally with the Bank Statement.



Mini-Test

| | o ways you would enter the amount of money for which k is written. |
|---------|---|
| | |
| | |
| What is | the last thing you would put on a check? |
| | |
| | the last thing you would put on a check? d you keep track of the checks you write? |



Mini-Test

| | o ways you would enter the amount of money for which k is written. |
|---------|---|
| | |
| | |
| What is | the last thing you would put on a check? |
| | |
| | the last thing you would put on a check? d you keep track of the checks you write? |



Savings Account

Someday you will want to have a savings account in the bank. To have a savings account you must know how to fill our savings account deposit slips and withdrawal slips.

Complete the following exercises, following the directions given.



When you have a savings account at a bank or savings-in-loan, you deposit money in the account and the bank or savings-in-loan pay interest on the money. It is then recorded as money which one has deposited. It is often true that interest is paid on the money through the day of withdrawal as opposed to quarterly, paid every three months.

People who work in the loans department of the savings institution loan out money to borrowers who pay for the use of it. This is the money you and people like you have deposited. When the money is put into an account, it then becomes a deposit to a savings account in your name.

On the following pages you will be learning to fill out forms which are required to complete this procedure.

You will learn to make a deposit. You will, also, learn how to withdraw the money (take it out) when you need it.

DEFOSIT SLIP

John Jackson deposited some money in his savings account at the bank. His account number cas 9,250, and he itemized the deposits carefully. He had \$1 are in bills, 85c in coin and a check, \$25.49. This is the way he filled out his deposit slip.

| Z14-6 Rev. 11-67 FOR BANK USE | SAVIN | AS DEPOSIT TICKET | |
|----------------------------------|---|--|---------------|
| ONLY | NA* _ | and the second s | • . |
| Bank Number | AGEY 1 DISTE: | | |
| Teller humber | | | DULLARS Cents |
| ٠. | | | |
| Tran Code | | | |
| Type or Control | Cut o · · · · · · · · · · · · · · · · · · | (. | () = |
| 1) 50 05 05 110 12 | Res (T. 1991) | 1.V | 15. 57 |
| | | | 2.2 21. |
| Раьсосок | | 1 | |
| Ending Balance | TO : 1' | Toposage to the second | 201 (2) |
| | | | 27 ÷ |

Use this as a sample on itall out the diposit slips on the next page.



The balance of a savings account is the total money deposited minus the money that has been withdrawn from the account.

Use this: d-w=b

Example: Jacob deposited \$5.00 weekly for 10 weeks. He withdrew \$18.00

during the 10 weeks.

| DEPOSITS | WITHDRAWAL |
|---------------------------------|--|
| \$ 5.00 5.00 5.00 5.00 | \$18.00 |
| 5.00 5.00 5.00 | Deposit-Withdrawal Balance |
| 5.00 5.00 5.00 | \$50.00 total deposits 18.00 withdrawn |
| \$50.00 Total | \$32.00 balance |

Imagine that you deposited \$6.00 each week for 7 weeks, and had withdrawn \$5.00. Use the example above to help you and be careful that your deposits and withdrawal get in the right column.

DEPOSITS WITHDRAWAL

Deposit-Withdrawal = Balance



A page from a passbook might be itemized something like the following;

Office Watertown Junior High . Account No.______

In Acct. with

| | DATE | WITHDRAWAL | DEPOSIT | INTEREST | BALANCE |
|----|--------------------|---------------|---------|----------|---------|
| 1. | June 9 '75 | | \$20.00 | | |
| 2. | June 19'75 | | 25.00 | | |
| 3. | June 30'75 | | 29.00 | | |
| 4. | July 10'75 | | 30.00 | | |
| 5. | July 12'75 | \$5.00 | | | |
| ó. | July 5 '75 | | 11.00 | | |
| 7. | <i>J</i> uly 15'75 | | 25.00 | | |
| 8• | Aug. 3 '75 | | 40.00 | | |
| €. | Aug. 10'75 | | 20.00 | | |
| ο. | Aug. 15'75 | | 9.50 | | |
| 1. | Aug. 25'75 | 6 .7 5 | | | |
| 2. | Aug. 29'75 | | 20.00 | | |
| 3. | Aug. 31'75 | | | \$8.90 | |

Add all deposits and interest payments to find the account balance. Then subtract every withdrawal after you have totaled them.

Work in the balance column and find the balance after each deposit, withdrawal, and payment of interest. How well can you do?



Fill out these deposit slips:

1. Bills \$75.00, Coin \$.73; Checks \$7.50, Passbook #7223

| FOR BANK USE ONLY | NAME | NGS DEPOSIT TICKE | :T | |
|----------------------------|---|--------------------|---------|---------------|
| Bank Number 5-7 | ADDRESS | _ ACCOUNT NUMBER | | |
| Teller Number | | CHECKS | DOLLARS | Cents |
| Teller Number 89 | | V | | |
| Tran. Code | | | _ | |
| · · | Customer Sign Here | COIN | | |
| Type or Control 12 | To Acknowledge Receipt of Cash Returned | CURRENCY | | |
| | | TOTAL | | |
| | | LESS CASH RETURNED | | |
| Passbook Ending Balance | TOTAL TO BE DEPOSITE | D TO THE ACCOUNT | | |
| | | | 27-34 | |

2. Bills \$50.00, Coin \$.49; Checks \$12.00, Passbook #2438

| FOR BANK USE ONLY | NAME | NGS DEPOSIT TICKE | | - |
|-------------------------|---|--------------------|---------|---------------|
| Bank Number 57. | DATE | _ ACCOUNT NUVBER, | | |
| Teller Number | | CHECKS | DOLLARS | Cents |
| Tran Code 13 | | | | |
| Passbook Ending Balance | Guitemer Signification of the control of the state of the control | Comp.1/2/ | | |
| | | CESS CASH RETURNED | | |
| | TOTAL TO BE DEPOSITE | D TO THE ACCOUNT | | |
| | [[L | | 97-34 | |



If you wish to take out money from your savings account, only you can do so. If you wish to deposit money, anyone can do this for you. In order to make a withdrawal, you must have your signature that matches the signature on your signature card written out on the slip.

| SAMINGE DY A STORE | WATERTOWN - DAK - STEE 157 6" |
|--------------------|---|
| | DE LE POUS DE LA PROSERTE DE LA PROPERTE DE |
| | |

Make up a fantasy withdrawal. Be sure the entire form is complete with an account #, a date, the amount in written and numeral form, the balance in the account, the signature, and address.



YOU

and the Work World

of Math

YCU

and Spending

- * Setting Up A Ladget "Budgetang"
- * Catalog Shopping
 "Shop Without Coing Shopping"
- * Furnishing Your Hono
 "Furnishing a Matemen"
- * Comparative home Shopping "Comparing a sees"
- * Quantity Purchas in "Buying in Quantity"



YOU

and the Work World

of Math

You and Spending
"Setting Up A Budget"



Related

Occupational Information

to Accompany

SETTING UP A BUDGET

If a person needed help in setting up a budget, he would go to an accountant, and pay for the services.

CLUSTER 2 BUSINESS, MARKETING & OFFICE OCCUPATIONS

Accountant

DOT 160.188

An accountant gathers information and puts it together in reports for a business. One's job is to find out how much money the business is making. One may work for a business, for the government, or own a business.



BUDGETING '

You will be working someday and earning money. If spending is planned, money can be used wisely. If it is not planned, it often seems to melt away, and one finds that there is nothing to show for having handled it. A budget helps one plan to spend income and meet expenses with it.

What is income? It is the salary you earn, the gifts you are given, or the interest you earn at the bank, or the dividends you get from owning stock in a company.

Expenses is what your every day living costs are such as purchasing clothing, paying for a place to live, buying food, and all the costs of whatever you need to pay for.

Let's try setting up a budget to plan how to spend your money. Imagine that you have the following income:

Salary.....\$50.00 Gift......5.00

Use the following items for the expense side of your budget:

Savings Clothing Transportation Recreation Room Rent Lunches Hobbies Other

You are ready to complete this budget form by filling in the income items and totaling them. When you have finished this, fill in the expenses, and total them.

| Income | Expenses | |
|----------|----------|--|
| | | |
| | | |
| Total \$ | Total \$ | |
| | | |

Now that you realize the import of spending money wisely through a budget plan, you will know that one must follow the budget to make it a successful undertaking. Here is a problem to study to help you see how to budget...You are going to college and working summers full-time. You earn \$50.00 per week gross pay. Decide how to spend it.



| Ine | Income | help you take it balance equally. Expenses | | | |
|------|------------------------------|--|--------|--|--|
| Sala | ar y \$ | Lunches\$ Bus Fare Clothing Recreation Room Rent Hobbies Savings | | | |
| | Total \$ | Total \$ | | | |
| 1. | Were you able to balance the | e budget? | | | |
| 2. | Do you feel that you planned | d your spending wisely? | | | |
| 3. | How important were your both | her expenses" item ? | | | |
| 4. | | xpenses, which would you leave out | or | | |
| 5. | | you spend for recreation. Is it en | nough? | | |
| | | SOUTH'S DOOR T | | | |

Helen decided that she maded to keep a budget for a month's trial to see if she could keep it a menutar attach the atount she planned.

BUDGLI PLAN

| BUDGET INTRIES | VI (| PAID OUT |
|----------------|---------------|----------|
| Dues | \$ 1.00 | > 1.00 |
| Savings | 5.00 | 5.00 |
| Entertainment | 2.25 | 3.00 |
| Painting | 3,25 | 3.25 |
| Dinner | 8 00 | 6.50 |
| Clothing | G (O) | 10.00 |
| Repay Loan | 30. 00 | 11.00 |
| Bus | 5.00 | 3.00 |

Totals

- How much did Helen alterners to in total toney to spend?
- What was the total amount to the Total out? 2.
- Did she stay within the that the transfer of the moralload in her budget? 3.
- Compare each entry, and assected the choices worch were made in the
- paid out column. List to n.

 Did she keep more money than she can be to good in the allowance 5. column? If so, how much did she not spondi



Imagine that your parents set up a budget for one week, because your Father gets paid once a week. After all check deductions, your Dad makes \$125. per week. He will set aside \$30.00 for the Mortgage Payment, \$10.00 Clothing, \$4.00 Precreaction, \$5.00 Savings, \$20.00 for Insurance, \$7.00 for Household bill, \$10.00 for Miscellaneous, and \$39.00 for Food. Place in the blanks the amount of money he will spend for each item listed and total the income and expenses.

BUDGET

| INC | OME | EXPENSES |
|------|--|--|
| Net | Weekly Salary\$125.00 | Mortgage |
| | | Clothing |
| | | Recreation |
| | | Savings |
| | | Insurance |
| | | Household Bill |
| | | Miscellaneous |
| | | rood |
| Tota | al\$ | Total |
| 1. | Do you think the amount of money to be set item makes a good spending plan? | _ |
| 2. | Is all of their spending planned here to t | he last penny? |
| 3. | How could one cut expenses in one or sever | at items? |
| 4. | If one could cut expenses, where could it | be done! |
| | CLOTHING BUDGET | |
| | A clothing budget is very important. One swell to hold a good working position. Per earance as well as by character and knowedged Janet and Jack need to buy clothing. Janet two week period. She needs to purchase a (a) Decide how much money Janet saved each | eople judge one's worth from ge and skills. et had \$15.00 she saved over a blouse that costs \$8.50. |
| | (b) How much money will Janet have left to clothing budget? (c) Do you think Janet has a good way of b | |
| 2. | Jack decided he santed to buy a topcoat cothat he would save \$10.00 per week to get | |
| | (a) How many weeks would he have to save t | o get the money? |
| | (b) Would he have any money over? | <u> </u> |
| | (c) If he would have money left over, how | much would he have? |
| 3. | Janet needed a dress. It cost \$45.00 and he planned to pay the store \$10.00 per week to | |

ull.

| | (a) How many weeks would it take her to pay for the clothing in full? |
|----|--|
| | (b) If she only purchased the dress and not the hosiery, how many weeks would it take? |
| ٠. | Jack saved \$24.00 for clothing over an 8 week period. He decided to buy 3 ties for \$4.50 and 3 pairs of good socks for \$3.00. |
| | (a) How much would Jack's total clothing bill be? |
| | (b) How much money did he save per week to have \$24.00? |
| | (c) How much money will he have left in his clothing budget? |
| | BUDGETING FOR RECREATION |
| • | You know that hobbies and recreation are very important in a well-balanced life. Here is what your budget might look like: SEPTEMBER - \$20.00 total planned Municipal Swimming Pool - 3 times at \$.50 Movies - 2 times at \$1.00 Colf - 1 time at \$1.50 Snacks - total money \$5.25 Electronics' Kit - 1 kit at \$7.50 |
| | (a) If this were your budget, how much did you spend on recreation for the month of September? |
| | (b) Did you stay within the amount of money planned for budget use? |
| | (c) If you did, did you have any money left to treat your friends? |
| | (d) If you had no friends to treat near your home, what else could you use the money for? |
| | (e) Might you want to use some, and start a savings account with the rest? How would you plan to do this? |
| ₽. | your recreational budget for a week. If you do not have, plan would spend \$5.60 for recreation for a week. Think of the entertainment you enjoy the most, and plan for it. |
| | (a) Entertainment How Many Times? Amt, of Money |
| | <u> </u> |
| | |
| | |
| | TOTAL \$ |
| | (b) Fore you able to stay within the \$5.00 per week? |



YOU

and the Work World of Math

Catalog Shopping

"Shop Without Going Shopping"



Prerequisite: Checking Account Packet

Shop Without Going Shopping

You have all seen a catalog. In fact, you probably have used a catalog, if only to sit on so you could sit higher in a chair.

Now, you are going to use a catalog to buy one complete outfit of clothing for yourself. You will pay for these items with a check (found in the packet.)

- l. Get a catalog from home, from a friend, or from a teacher. Look through the catalog and pick out one complete set of clothing including shoes, a jacket or coat, and a swim suit. Do not forget anything. Include socks, a belt, and a purse (if you are of the right sex.)
 - 2. Fill out the order blank found at the end of this packet.

In box 1, put your correct name and address. In box 2, fill in your old address, if you have just moved to a new address. If you have not moved, leave box 2 blank. Since you will be paying by check, check the "cash" blank in the "Method of Payment" box. (A check is one form of cash.) Sign your name in that box. Since you will probably want the clothes sent to you at your home address leave the box entitled "Ship to Another Address" blank.

Now to the next section. Fill in the information on each item you buy. Follow the examples for the pair of denim jeans and shirt found below.

The denim baggy jean

D Here's the look to have winde beggy rect, deen 2-inem cuffed contents, and tubers with wide beit loops. 2 front sides it, which exists, a beck patch packers. 100 section. Microre wests, a beck patch packers. 100 section. Microre wests, we introduced by trayed by 15. Size shalt on cutte 434. Sizes: 8, 10, 12, 14, 15, 18, 20, 22. State size. Ship, wits, earl slim, reg. 1 fb., husky 1 fb. 2 oz Z 33 B 9120 D—Slim. . . Ea. 4.99; 2 for 9 80 Z 33 B 9121 D—Reg. Ea. 4.99, 2 for 9 80 Z 33 B 9122 D—Husky. . . . Ea. 5.99, 2 for II 60

Denim plaid \$59 knit shirt

| Give complate catalog number | Hota Many | ltem | Color Number | Cize | frice i | Total Price | inip lbs | ₹: 6 02 |
|--------------------------------|--------------|------------------------|-----------------|-----------|--------------|----------------|-------------|------------|
| Z 33 B 9121 D | 1 | Jenin Baggy Jeon | | 22 Reg | 4.99 | 4.99 | 1 | 2 |
| в 33 в 6745 | 1 | Plaid Knit Shirt | 73 | 20 | 3. 59 | 3. 59 | | 6 |



After you have completed the chart section of the form, find the total cost and put it in the appropriate slot. Also, fill in the total pounds and total ounces. Then fill in the total weight in pounds. (Remember, 16 ounces equal one pound.) If you end up with a fraction, put down the next highest whole number. For instance, instead of writing $7\frac{1}{4}$ in the box write 8.

Sales tax is the next item to be figured. Look at the tax chart. What is the sales tax rate in South Dakota? That is right, 4%. Since the tax is four percent, you must multiply the total price for the goods by .04 (4% is the same as .04, as you will learn later on in the year.) Do the required multiplication to come up with the tax, after studying the following example. Let us assume the total for goods is \$32.16. To find the sales tax we will multiply 32.16 by .04. When you multiply two numbers with decimal points, first multiply the numbers together, ignoring the decimal points.

Next, count the number of numbers to the right of the decimal point in each factor Add these two numbers together. Let us look at our example. In the first factor, there are two numbers to the right of the decimal point. There are also two numbers to the right of the decimal point in the second factor. Thus, there are a total of 4 numbers to the right of the decimal point. Now, start from the left hand side of the product and count four places to the left. The decimal point will fall between 1 and 2.

The number would then be 1.2864. Thus, the sales tax would be \$1.29. (Always round to the next highest number when you are dealing with money.) Enter the tax you have figured on the line provided.

The next item is postage. The following are two charts used to figure postage. They are located on page 476 of the catalog.

| Parcel | Post | Rate | Table |
|--------|------|------|-------|
|--------|------|------|-------|

| | In city: Zones Zone Zone Zone | - | | 20148 | Zone | lane | Zone |
|--|--|---------------------------|----------------|-------|------|---------------|--------------|
| SHIPPING WEIGHT | "min & 3 4 5 | SHIPPING WEIGHT IC | | ä | 3 | 4 | 5 |
| | briter 2 | | x Heal | 2 | | | |
| Up to but not | Sc for the first 2 ourses and | 29 ths 1 oz to 21 ths 5 | | | | | \$3.05 |
| ke'uding 15 oz | 4c for each additional ounce | 22 bs 1 cr to 21 bs | | | | | 3.25 |
| !5 of to 2 in | 69c 65c + 75c 75c 60c | A to for the total | | - | | 2.75 | 3.35 |
| Zits Ler to 3ths | | I | | 1 | •• | 2 85. | |
| 3.51. 1 or to 4 th 1 4 th 1 or to 5 to | i I ! | 1 | | - | 2 40 | 2 93 | 3.70 3.50 |
| 5/63 1 oz 10 5 ib: | | | | | 2 50 | | 3 90 |
| filts for its 7/50 Tilts for its 8/05 | 756 1 10 1.15 1 35 1 60 | 1 | | 2 30 | | 3 10 | 4 60 |
| the late of the | | 1.5 % of to 10 % % | | | | 3 23 | 4 75 |
| Cits for to ta us | 85e 125 13 1 cul 200 | 1 | 1.40° 1.40° | 2 45 | 275 | 3 251 | 4 20 |
| 11 % s 1 cr 10 12 5: !21bs 1 cr 10 13 5 | 85c 1 75, 1 45, 1 70' 2.13 85c 1 35 1 2" 1 60: 2 70' | 1 | - , | | - | 3 451 | |
| Bibs for to late | , , | | | | | 3 85 4 20 | |
| 15:31 1 of to 15:35 | | 22 31 | 1 60 | 3.25 | 3 70 | 4 60 | 6 05 |
| leibs ler to 17 ibs | 51.00 1.66 1.60 2.15 2.65 1.00 1.65 1.90 2.20 2.75 | | 2 05 | | | 4.95 5 35i | |
| ists for to lear | 1.01 174 200, 230 265 | | | | | 3.70 | |
| 19152 1 or \$20154 | 1.05 1 751 2.75 2 40, 2.95 | 7) '51 : | | | 4 83 | 8.03 | 185 |

Parcel poll rates subject to change by U > Postal Service



Parcel Post Zone Table

To find your postal zone from St. Paul, compare the first 3 numbers of your zip code with numbers listed for your State. For example—if you live in Detroit Lakes, Minn. and your zip code is 56501, the first three (3) numbers 565 determine your parcel post zone. By referring to the chart below for Minnesota, you will find 565 is zone 3

| MINNESOTA | | | |
|----------------------------|-------|--|--|
| Zip codes beginning | Zone | | |
| 551 | Local | | |
| 565, 566, 567 | 3 | | |
| All other | 1 & 2 | | |
| MICHIGAN | | | |
| Zip codes beginning | Zone | | |
| 497 | 4 | | |
| All other | 3 | | |
| WISCONSIN | | | |
| Zip codes beginning | Zone | | |
| 540 , 546, 547, 548 | 1 & 2 | | |
| All other | 3 | | |

ر من ا ا

| zone 3. | |
|----------------------------|-------|
| AWOI | |
| Zip codes beginning | |
| 504, 505, 512, 513, 521 | 1 & 2 |
| Ail other | 3 |
| NORTH DAKOTA | |
| Zip codes beginning | Zone |
| 520, 581, 582, 584 | 3 |
| All other | 4 |
| SOUTH DAKOTA | |
| Zip codes beginning | Zone |
| 575, 576, 577 | 4 |
| All other | 3 |
| MONTANA | |
| All Zone 5 | |
| | |

Look at the Parcel Post Zone Table to find the number of the zone for Watertown. To find the number of the zone, you need to find the zip code of Watertown. If you don't know Watertown's zip code, find it. By looking at the chart, in which zone is Watertown located? Now, refer to the second chart on the parcel post rate table. Go down the left hand column until you find the line containing the total weight of your purchase. Find the amount of postage, by looking under the column headed "Zone 3". When you find the amount of postage, enter that number on the order blank.

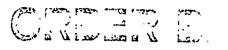
Since this is your first order, the amount owed on previous cash orders is 0, so put a zero in that blank.

Now, add up the total for goods, ta:, and postage to get the cash price. Enter that amount on the cash price line. Also enter it on the next line, which tells

the amount of money included by check. Use the following check to pay for the order. Look back at the packet on checking accounts if you do not remember how to write a check.

| ; | • | | •• | • •• | • • • • | ••• | •- | معاد الشائمة أمحا ميلاد | ••• | •• | ٠-, |
|---|--------|-----------|--------|---------------|----------|-------|----------|-------------------------|-------|---------------|----------|
| | | | | | | | | | | 183 | • |
| • | - | | | | | | | | 19 | 78-973 914 | : |
| : | PAY TO | | | • | | | - | | \$ | | |
| 1 | | | 12 | 7 - 11. | | - | - | - | | DOLLARS | ; |
| í | | FARY C | | Aug na | | ĩ | | | | | ; |
| | | 914 | " 0a ? | 31, 11, 11, 1 | L 2m 3 2 | 08 10 | - ' ; | · · | ~ | - | : اد۔ |

In some cities which have catalog stores, a person does not need to fill out an order blank. He can simply phone the catalog store and tell the catalog clerk what he wants to order. But, if a person lives in a smaller town where there is no catalog store, he cannot do this.



7 / CORRECTION-OF-

| المراجع المرادات | 55 13 0 11 | IUET | |
|---|---|-----------------------------|------------------|
| | Data | | |
| , | • • | • | • |
| • 5 î.1a• 79,48 | n subinitting 30 | the com; | pletad |
| JONE | | | |
| | | | |
| | | | |
| USE.!) | | | |
| | | | |
| | | | |
| arre, consi | isting of the casi object to the ter | h sale price nis and con | and a ditions |
| | | | |
| | | | |
| £ 3> <p.< td=""><td>and ou your acc</td><td>ount) ,</td><td></td></p.<> | and ou your acc | ount) , | |
| . WRITE | IN THIS SPA | CE | |
| | | | |
| | | | |
| • | Ar Service | | |
| | | | |
| | | | |
| | | | |
| St.et | ` | | |
| Prione | · | · | |
| i | | Cure | WT. |
| 17 JH | TOTAL PRICE | rfill rfill | in for |
| | ra Ca | LES | 52 |
| Į. | | | ì |
| | | _: | |
| | <u> </u> | | |
| | : | | ! |
| | | | |
| | | | <u> </u> |
| | | | <u> </u> |
| | | | Ì |
| | · | | i |
| | . | | |
| | <u>:</u> | - | |
| | : | | |
| | : | | i |
| | <u>.</u> | - | |
| | :- | | |
| | | Total | ictal oz. |
| | | - | |
| | | Total v. | t. in lb: |
| • | | | |

| You save time and money by combining purchases in a | i s.ngie |
|--|------------|
| order. Your post and cost are to , and below riths or |) (" "su |
| same purchases, ordered separate. You may also siv | a when |
| you combine your orders for are readment big merce | 11 3150 |
| (Items with catalog numbers of doing in their or intings | cyme |
| truck and express curpor is at are, to a specific mi- | 2. ~ 11111 |
| poundage, even it ship ther three his Las you can refe | e > 1/11- |
| uonai items (up to this real nuna) with his more asset. | n vour |
| shipping cost. See opposity page for details. | , |
| | |
| and the second of the second o | |

| poundage, even it simmer tiven (is 1 sayly tional items (up to this mail number) with its shipping cost. See oppositionage for detail | ou can croec a foi- | | | ٠ | use.!) | | | |
|--|---------------------|-------|-----------|-------|----------------|--|--|----------|
| A STATE OF THE STA | | | 1 | , * | | | | |
| PLEASE PRINT ALL INFORMA | TION | | | | | | | |
| • • •. : | | | | | antine, consi | isting of the cas ubject to the ter | h sale price and a nis and conditions | 1 |
| Name | | | | | | | | |
| (first) (middle) | (last) | _ | N | | ~ £ 15 ch | and ou your acc | ount) | |
| Address | | _ | | , | | III THIS SPI | | ن |
| CityState | | - | • • • | • , | · 1//3/2 | III IHIS SP/ | ACE | |
| ZIP codePhone | · | _ | | | | | | |
| | um sun uruquia. | | | | • | Att Service | t earlies du e | ٠. |
| Address | | | - | | | | | - |
| City | | _ | '\ | · | | | | - |
| State2.j c to | | _ | 1., | | | · | * | |
| GIVE COMPLETE CATALOG 1. MOSR Do you have a condition of the consequences convenient way to so of the cure alove. | HOW WASH | ויפדו | 1 | | 77:CE 77:23 | TOTAL PRICE | SHIP WT. | |
| | | | | | ! | . : | | |
| maganalahan pengangkan 19 menganah mengangkan pentam dalam menangkan menangkan dalam sebagai | | | - | | | : - | | |
| | | | | | | : | | - |
| | | | - | | | | | _ |
| the same of the sa | | | | | | | | |
| | | | | | | | | |
| | | | , , | | | : | | _ |
| | | | 4 | | | • | | |
| | | | , " ; | • | | | | _ |
| | | | | | | : | - | |
| independent in the common of the paper of the first and the second of th | | | | | | : - | | |
| The state of the s | | | . ' | . ; | | <u>:</u> | | |
| | 1 | | | ; | | : | | |
| | BUL | | | | | : | Tutal, 1615 | |
| lowa | | • • | | | | | lbs. oz. | |
| Minney state(except clot whiten tell the spin to | 1) 1 5 | | (| | | : | Total wt. in | 'bs. |
| North Dukota | 4 % | | C^{*} . | | - | | 7 | |
| *Add local tax, if applicable in year 1 miles. | 403 | - | | ٠,: ١ | 010-1 | | 16 c: m1 lb. | |
| · · · · | • | - | • | • | - 15 | <u>:</u> | remaining (1. | |



CORTECTION-OF-

| | | | ί | Data | | |
|---|---|---|---|--|---|--|
| | . , 2-79 | | er yer to an eq | | • | |
| PLLA | SE OPER | t AN ACC | COURT, Lam s ges 479, 480 | ຸ້ ເນວິດແປນກຽ to • | e completed | |
| ADD TO MY CHARG-ALL ACCOUNT My act of number is CASH (check or money order enclosed) | | | | | | |
| | | | | | | |
| This purcha: | e is made | at a t-me s | ale price, gonsist | ing of the cash : | sale price and a | |
| of my Credit | ffurential i agreement | or Imance o I wila you. | harge and .2 suu | ject to the terms | and conditions | |
| | ATURE | (Sign I | u'i name as show | ru ou hont accon | int) | |
| | PLEA | SE UO N | | | E | |
| | | | | | | |
| | | | | | | |
| *** (, | | | • | | | |
| Name | | | | | | |
| ezerbaA | | | | | | |
| | | | | | | |
| • | | | | | | |
| . 1 code- | • | · · | r··Oiig | | | |
| | COLOR NUMBER | SIZE RESTORE | PRICE EACH | TOTAL PRICE | SHIP WT. | |
| , | | i ' | ~ i | · · · · · · · · · · · · · · · · · · · | | |
| | | | | <u>-</u> | - - | |
| | | | | : | | |
| | | | - | : | | |
| | | | | : | | |
| | | | | - | | |
| | | | | | - | |
| | | | | | | |
| | | | | : | | |
| | | | | | | |
| | | | | :- | | |
| | | | | | | |
| | | | | : | | |
| | | | | : | | |
| | | | | | Tetalise | |
| - | **** | | | | los c | |
| | | | | | irotal vrt. ir | |
| | | cazh olde | !5 | · · | | |
| | | Check 5 | loney Greet | | । हिन्दु म | |
| | 11/11 | I VIII LUN. II | | • | count any | |
| | ADD T My a SPECIAL SPECIAL SPECIAL SIGNAL SIGNAL SIP CODE | ADD TO MY CHAMY ACT IN THE MY | ADD TO MY CHARGALL A My act of number is. CASH (check or money order SPECIAL INSTRUCTIONS. This purchase is made at a time s time since of first color invance of my Credit agreement what you. SIGNATURE (Sign) PLEASE BO N Name | ADD TO MY CHARG-ALL ACCOUNT My act of rumber is CASH (check or money order enclosed) SPECIAL INSTRUCTIONS This purchase is made at a time sale price, consisting price of instructions of my Credit agreement what you. SIGNATURE (Sign full name as shown please DO NOT WRITE IN PLEASE DO NOT WRITE IN Name Address City State ZIP code Phone COLOR SIZE COLOR INVINEER COLOR TOXX (non-ot-1-ti) 1 Journal of the price of the pric | CASH (check or money order enclosed) SPECIAL INSTRUCTIONS This purchase is made at a time safe price, consisting of the cash time price of discretial or finance charge and its subject to the terms of my Circlit agreement with you. SIGNATURE (Sign full name as shown on your account of the cash time price of discretial or finance as shown on your account of the cash time price of discretial or finance as shown on your account of the cash time price of the terms of my Circlit agreement with you. PLEASE BO NOT WRITE IN THIS SPACE Notice of the terms of the cash time as a shown on your account of the cash time price of the terms of my Circlit agreement with your account of the cash time price of the terms of the terms of the cash time price of the terms of | |



Related

Occupational Information

to Accompany

Furnishing Your Home

FURNISHING A KITCHEN

If you needed help in choosing furniture or equipment for a home, you would go to an Interior Decorator and pay for his/her services.

INTERIOR DECORATOR

DOT 142.051

An interior decorator helps people choose furniture, drapes, carpets, and other things. Then they buy the new furnishings and arrange them in the home or office.



Furnishing a Kitchen

Furnishing a home is an experience you will be faced with sometime. In this project I want you to figure out the cost of furnishings for the kitchen of a home if you had \$1600 to spend.

You will have to decide what you want in your kitchen, how much you will pay for each item and how you will make payments for these items. Remember! You must pay a 4% state sales tax on each item. Compute this chart of items purchased:

| Place of Purchas | | Item | Description | Price | Tax | Total Cost |
|------------------|----------|---------------------|---|----------|----------|---------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | Tota | l Cost _ | | |
| How n | nuch wil | l t he furni | ishings cost if y ou pay | cash fo | r them? | |
| of the cos | st) in m | onthly paym | you paid \$530 down and ments of \$52.05 for a p Allment buying.) | | | |
| How n | nuch wil | l the furni | ishings cost if yo u pay | for the | em in in | stallments? |
| | | e do the fu | rnishings cost by buyi | ng them | on the | installment |
| What | are the | advantages | s in paying cash for th | e items? | ? | · |
| What | are the | advantages | s in buying on the inst | allment | plan? | |



YOU and the Work World of Math

Comparative Home Shopping
'Comparing Prices'



COMPARING PRICES

When you earn your own living, you will need to be careful how you spend your check in order to get the maximum amount of goods for it as you can. Maximum means the most. When we talk about goods, we mean supplies which have been grown or manufactured.

Food is a goods. It can be grown in a garden or purchased in a supermarket or in a neighbrhood grocery. Here is a list of several groceries and prices that were found in three different stores. Decide the total grocery price at Store i, II, III for the following grocery items:

| ARTICLE | STORE I | STORE II | STORE III | | | | | |
|-----------------------------------|---------------|-----------------|-----------|--|--|--|--|--|
| pineapple | \$.59 | \$.61 | \$.63 | | | | | |
| lettuce | .20 | .21 | .22 | | | | | |
| celery | .15 | .14 | .16 | | | | | |
| carrots 2 lbs. | .35- 2 lbs. | .37 - 2 lbs. | •36 | | | | | |
| potatoes 100 lbs. | 3.45-100 lbs. | 3.55 - 100 lbs. | 3.47 | | | | | |
| onions lbs. | .10 | .09 - lbs. | •10 | | | | | |
| tapioca 14 oz. | •49 | •49 | .49 | | | | | |
| dates lbs. | •55 | . 56 | •55 | | | | | |
| TOTALS | \$ | \$ | \$ | | | | | |
| 1. What is the cost at Store "I"? | | | | | | | | |

| ı. | What | is | the | cost | at | Store | "I"? | | | |
|----|------|----|-----|------|----|-------|------|--|--|--|
|----|------|----|-----|------|----|-------|------|--|--|--|

- 3. What is the cost at Store "III"?
- 4. What store cost the least?
- 5. Find the difference in prices between the following stores:

| "I" | and | "11" |
|----------|-------|-------|
| "I" | and | "III" |
| יי ד דיי | " and | "111" |



^{2.} What is the cost at Store "II"?

COMPARING PRICES

Many families save money by buying household items at the store which offers the most reasonable prices for the same quality goods.

| PRICES | 6 | | | |
|---|--|----------------------------------|---|-------------------------------|
| | | le Price- | | |
| ITEMS | | DRUG | HARDWARE | COST DIFFERENCE |
| automatic drip coffee maker hand mixer can opener steam and dry iron | | \$ 32.00 9.00 9.00 9.00 | \$ 38.88 11.88 11.88 10.88 | \$ |
| space heater 1320 watts model | 321220 Tropicaire | 13.00 | 14.50 | |
| | Total \$ | 3 | \$ | \$ |
| from O Hardware, who were each store's prices, and write 2. There is an old saying, "athe difference in prices. What that you could not have had in was not having a sale? | e here the t a penny save at else coul f you had pu | ed, is a per d you buy the | difference nny earned". with the mone om the hardwa | Examine y saved re that |
| 3 THINK CAREFULLY! Do you to buy anything else right awa | | | | |
| WAIT ING | FOR A GOOD | BUY | | |
| Linda always wanted a Sindifferent kinds of stitches to simple, sturdy machine she was only had \$200. Which she had s | begin with nted. The r saved, so sh | . She wate egular pri | ched the pric ce was \$269.0 | es for the O. She |

one unless a special buy came along.

About two months after she prices the model she wanted, she saw one in the window for \$100.00 on special sale. A school had ordered too many and did not take delivery on this one. She was thrilled, yet she wanted a cabinet, also. An Early American style cabinet was usually priced at \$125.00. For this sale, it would cost \$98.00.

| Ų.D.J | .00. 101 | unis saire, it moura cost quotos. | |
|-------------|-----------|---|--|
| (a) | How much | money did Linda have in her checking account? | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| (b) | How much | was the regular price of the machine? | |
| (c) | How much | was the regular price of the cabinet? | |
| (d) | How much | was the regular price of both of them? | |
| (e) | How much | was the sale price of the machine? | |
| (f) | How much | was the sale price of the cabinet? | |
| (g) | What was | the sale price of both of them? | |
| [O" | How much | did Linda save? | |
| | Did she h | have any money left over in the bank? | 67 |

SAVE WHILE BECOMING A BETTER YOU!

| | Reg. Price Sale Price | Eavings. |
|--|---|-----------|
| Price Photo Album Reg. Price Reg. Price Reg. Reg. Reg. Reg. Reg. Reg. Reg. Reg | (Record the Prices) | |
| Photo Photo Sale Price #199. | Tobbies are fun to re | cord. |
| oute trice | Reg. Price Sale Price | <i></i> |
| Reg. | Reg. Price Sale Price (Record the Pices) | serings ! |
| Price A12.88 | CASCOTA | |
| Sie Ries - No. | A good cook is always ag | preciated |
| Reg. Price | Reg. Price Sale Price (Record the Trices) | Savings |
| Ha-23 | | |
| Fiead Eshoulders | | |
| The state of the s | Can hair Contributes & | to |
| Sale Price \$ 1.48 | Self Esteem. | |

A Clothing Store Manager Reduces Prices

| Item | Reg. Price | Sale Price | You Save |
|---------|------------|---------------|--|
| Shoes | \$ 9.99 | # 8.90 | And the same of th |
| Kant To | 8 4. 99 | \$ 3.÷4 | £==== |
| | \$ 7.99 | g 7°88 | *************************************** |
| | \$6.99 | \$5.44 | e e e e e e e e e e e e e e e e e e e |
| Claves | .97 | 5 . 50 | 4 |



YOU and the Work World of Math

YOU

and Spending

Quantity Purchasing

"Buying in Quantity"

Getting the Most for Your Money

PENNY'S SUPER MARKET -- Minneapolis

| inge Juice | 19¢ 6 oz. can | Occident Flour | 69¢ 5 1D. |
|-------------|-------------------|-----------------------|---------------------|
| serves | 79¢ 18 oz. jar | Betty Crocker Pudding | \$1.00 3 lb. 17 oz. |
| ches | 45¢ 29 oz. can | Chuck Steak | 69¢ lb. |
| Ššsing | 89¢ 16 oz. jar | Applesauce | 79¢ 46 oz. jar |
| ound Beef | 99¢ extra lean | White Bread | \$1.00 |
| 8 4 1 | | , | |
| | NATIONAL | . MARKETMinneapolis | |
| ite Bread | 89¢ 3 1½ lb. loay | es Occident Flour | 69¢ 5 lb. |
| ick Steak | 59¢ per 1b. | Applesauce | 79¢ 46 oz. |
| essing | 89¢ 32 oz. jar | Preserves | 79¢ 18 oz. |
| | | | |

Shortening

Betty Crocker Pudding

rections: In column 1 list the items found in both stores. In column 2 write the name of the store where the item costs more. In column three write the amount of money one saves by buying at the lower priced store. Note-Look out! There are some prices listed which could make you make mistakes if you do not read the full description of the item.

| oce | ry | ,] | [te | em | St | or | e | wi | th | t | he | F | lic | jhe | er | Pı | cio | <u>e</u> | AN | ja | INI | | | EC | B G | Y | CA | RE | FU — | L — |
|-----|----|-----|-----|----|--------|----|---|----|----|---|----|---|-----|-----|----|----|-----|----------|--------|--------|-----|---|---|----|--------|-------|----|----|---------|--------|
| | | | | | | • | | | | • | | | • | • | • | • | • | • | • | • | • | • | • | | • | • | | | | • |
| | | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | ۰ | • | • | • | • | • | • | • | • | • |
| | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | ٠ | • | • | • | ۰ | • | • | • | • | • | • | • | • | • | • |
| | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 3 | • |
| • | • | • | • | • | • , | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | ۰ | • | • | • | • | • | • | • | • | • | • | • | ۰ | • | • |
| | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | ٠ | • | • | • | • | • | • | • | • |
| | | • | • | • | • | • | • | | ۰ | • | ٠ | • | • | • | ۰ | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |



ound Beef

aches

69¢ per 1b.

49¢ 29 oz. can

\$1.49 per 3 lbs.

33¢ per 17 oz.

GETTING THE MOST FOR YOUR MONEY

Directions: Imagine that you have clipped 4 advertisements from the classified section of your newspaper. Find these ads listed below. WHICH AD OFFERS EACH GROCERY ITEM AT THE LOWEST PRICE? Put a check mark in front of each best buy. There are 19 different items to find.

| Corn | 24¢ a can | Peas | 21¢ a lb. |
|-----------------|------------|---------------|-------------------|
| Co okies | 25¢ a box | Bacon | 53¢ a lb. |
| Fish Sticks | 34¢ a box | Jelly | 33¢ a jar |
| Peanut Butter | 71¢ a jar | Coffee | 94¢ a jar |
| J elly | 35¢ a jar | Cola | 31¢ a qt. |
| Chicken | 33¢ a lb. | Milk | 24¢ a qt. |
| Flour | 13¢ a lb. | Corn | 25¢ a c an |
| Ice Cream | 70¢ a qt. | Peaches | 41¢ a can |
| Apples | 19¢ a lb. | Bananas | 15¢ a lb. |
| Rice | 31¢ a box | Beans | 20¢ a]b. |
| Bread | 27¢ a loaf | Flour | 12¢ a 1b. |
| . Bacon | 51¢ a lb. | Rice | 32¢ a box |
| Pe as | 19¢ a lb. | Chicken | 34¢ a lb. |
| Beans | 19¢ a lb. | Apples | 21¢ a lb. |
| | | | |
| Bread | 28¢ a loaf | Chicken | 31¢ a lb. |
| Fish sticks | 33¢ a box | Peanut Butter | 62¢ a jar |
| Cookies | 23¢ a box | Cookies | 27¢ a box |
| Beans | 18¢ a lb. | Ice Cream | 69¢ a qt. |
| Flour | 14¢ a lb. | Coffee | 99¢ a lb. |
| Chicken | 32¢ a lb. | Fish sticks | 36¢ a box |
| Peanut Butter | 65¢ a jar | Cola | 32¢ a qt. |
| Ice Cream | 43¢ a qt. | Apples | 25¢ a lb. |
| Peaches | 43¢ a can | Jelly | 32¢ a jar |
| Jelly | 31¢ a jar | Bread | 26¢ a loaf |
| Bananas | 17¢ a 1b. | Corn | 22¢ a can |
| Cola | 33¢ a qt. | Peas | 20¢ a 1b. |
| | | | |





BUYING IN QUANTITY



Do you think that it would be wise to buy more than one item at a time to save money?

You can buy Yarn for 5 for \$4.00. The regular price is \$1.29.

Directions:

First find what I ball of yarn costs at regular price\$ Now multiply by 5 to decide how much five balls of yarn would cost you. Then subtract the total cost of the sale price yarn, from the from the total for the other five balls of yarn. What do you get?

\$ 1.29 (Regular price) (Balls of yarn) (Total cost of 5 balls of yarn at regular price)

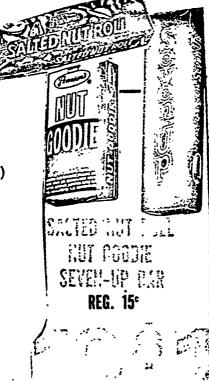
Subtracting the sale price of the five balls of yarn from the regular price, would look like this in a problem:

> \$ 6.45 (The cost of five balls of yarn @ regular price) -4.00 (Sale price of yarn) (Amount you save at the sale price)

Here is another problem:

Candy is advertised ten bars for \$1.00 when it was regularly selling for \$.15 ; bar. How much would one save if he/she purchased 10 when they were on sale. How much if one purchased 100 bars would be saved?

| \$.15 | (regular price one bar) |
|-------------|--|
| x 10 | (number of bars) |
| \$1.50 | (total price of 10 bars) |
| -1.00 | (sale price) |
| \$.50 | (amount one saves) |
| <u>x 10</u> | (saving \$.50 on every 10 bars multiply by 10) |
| \$5.00 | (total amount saved on 100 bars) |





Buying items in larger quantities (by the case) is a saving.

Directions: Go to Prairie Market and find the single price of the .following items and the price by the case. Fill in the following form.

| | SINGLE ITEM | NUADER IN | CASE | YOU |
|----------------|---------------------------------------|-------------|-------|------|
| ITEM | PRICE | CASE | PRICE | SAVE |
| Heinz | | | | |
| Ketchup | | | | |
| 14 oz Bottle | | | | |
| Libby's | | - | | |
| Pears | • | | | |
| #2 Can | | | | |
| Hunt's | | | | |
| Tomato Paste | | | | |
| Small Can | | | | |
| Cock O'the | | | - | |
| Walk Peach | | | | |
| Halves | | | | |
| 29 oz Can | | | | |
| Heinz | | | | |
| Koshered | 1 | | | |
| Dill | | | | |
| Pickles | | | | |
| qt. jar | | | | |
| Van Camp's | | | | |
| Pork'n'Boans | | | | |
| 16 oz Can | | | | |
| Dol Monte | · · · · · · · · · · · · · · · · · · · | | | |
| Chunk Tuna | | | | |
| 6 oz Can | | | | |
| Del Monte's | | | | |
| Whole Kernel | | | | |
| Corn 17 oz Can | | | |] |
| Libby's Sliced | | | | |
| Green Beans | | | | |
| 17 oz Can | |] | | |
| Hunt's Fruit | | | | |
| Cocktail | | | | |
| 300 Can | | | | |
| Tide | | | | |
| Detergent | | 1 | | |
| Giant Sizo | | | | |
| Green Giant | | | | |
| Peas | • | | | |
| 303 Can | 1 | | | |
| Libby's | | | | |
| Tomato Juico | | } | | |
| 46 oz Can | 1 | | | |
| | | | | |





YOU and the Work World of Math

Vacation Planning

"What A Vacation"



What a Vacation

The Black Hills of western South Dakota are beautiful. Very few places in the United States can match the scenic beauty of the Black Hills.

The Cresbards have heard much talk about the Hills. This year they have decided to take their vacation in the Black Hills. The Cresbards have 7 days and nights to spend on their vacation. Their trip will start on Sunday and end the following Saturday.

Jake and Sarah Cresbard have two children, Tim and Joanne. So, four people will be going on this trip. They will be staying in motels and eating all their meals in cafes.

It is your job to completely plan the trip. You must decide the route they will take to get to the Hills, the route they will take to get back home, which cities they will sleep in, where they will eat their meals, what to do each day of the vacation, and how much the entire trip will cost.

Remember as you plan the trip you can use the days in whatever way you want. If you decide not to do too much one day, that is fine. Since the Cresbards are not wealthy and don't have a lot of money saved for the trip, don't spend over \$650 on this week of vacation.

To help plan the trip, use the following guides. They will be a big help.

The Trip

- 1. Describe the route to get to the Hills. (Name highways and towns they must go through.)
- 2. Describe the route used to come home from the Black Hills.
- 3. Miles and gas: Fill in the chart.

| | Where start | | What did you do during the day? | Where did you end the day? | Miles traveled that day | Am't spent on gas |
|-----------|----------------|--|---------------------------------|----------------------------|-------------------------------|-------------------------|
| SUNDAY | | | | | | |
| MONDAY | | | | | _ | |
| TUESDAY | | | | | | |
| WEDNESDAY | | | | | | |
| THURSDAY | | | | | | |
| FRIDAY | | | | | | |
| SATURDAY | | | | | | |



Total miles ______
Total gas _____

76

4. Meals: Fill in the chart.

| | Number of Keals | Cost of Meals |
|-----------|-----------------|---------------|
| SUNDAY | | |
| MONDAY | | |
| TUESDAY | | |
| WEDNESDAY | | |
| THURSDAY | | |
| FRIDAY | | |
| SATURDAY | | |

5. Sleeping: Fill in the chart.

| | Where did you Sleep? | How much did it Cost? |
|-----------|----------------------|-----------------------|
| SUNDAY | | |
| MONDAY | | |
| TUESDAY | | |
| WEDNESDAY | | |
| THURSDAY | | |
| FRIDAY | | |
| SATURDAY | | |

| Cotal | Cost | |
|-------|------|--|
| LUVAL | W3 t | |

6. Amount spent on sightseeing.

To get into many of the attractions at the Hills, you must pay some money. For instance, to get into the Reptile Gardens costs about \$2.50 per person. Estimate the amount you would spend each day to get into various attractions.



| | Which Attractions | Cost |
|-----------|-------------------|------|
| SUNDAY | | |
| MONDAY | | |
| TUESDAY | | |
| WEDNESDAY | | |
| THURSDAY | | |
| FRIDAY | | |
| SATURDAY | | |

| | Total Cest |
|-----|--|
| 7. | Now that you know how much gas, eating, sleeping, and sightseeing will cost, can you think of anything else that we must pay for? If you can, list it below. |
| 8. | Which day were the most miles covered? |
| 9. | What is the average number of miles driven each day? |
| 10. | What is the total cost of the Black Hills trip? |
| 11. | Is this under the limit? If so, how much? |
| 12. | If each member of the family has to pay an equal amount of the cost how much would each person have to pay? |
| 13. | Tim mows lawns. He charges \$1.50 per hour to mow lawns. If Tim works 8 hours a week on lawns, how much does he earn each week? |

Vacations are fun. But, one must work many hours to pay for his vacation. Vacations do cost more money than a lot of people realize.

14. How many weeks would Tim have to work in order to pay for his share

By the way, are you going to take a vacation next summer? (Remember to plan for it!)



of the trip?

YOU

and the Work World of Math

You as an Opinion Pollster

"Work in Pairs to Discover --What Do People Think?"



Work in Paris to Discover-"What Do People Think?"

| Names |
|---|
| What have all heard of the Gallup poll surveys. In these surveys, people are asked how they feel about certain things. For this unit, you will look at some surveys and then you will conduct your own survey, For this project you will work in pairs. |
| Do the following items. |
| 1. Out out of a magazine or newspaper, two surveys or polls. You can use school newspapers, the Watertown Public Opinion, Time magazine, to cup up magazines and papers you find in the library. |
| 2. Answer the following questions about each of the surveys. (Work together.) |
| . Survey I |
| a. Which company conducted the survey? b. What is the general topic of the survey? c. How many people were questioned in the survey? d. Is your opinion on the topic the same as the majority of those questioned? e. What percent of the people questioned had no opinion? Do you find this percent surprising? f. Do you think the results of the poll would be different if more or less people would have been questioned? |
| How much different? |
| Survey II |
| a. Which company conducted the survey? b. What is the general topic of the survey? c. How many people were questioned in the survey? d. Is your opinion on the topic the same as the majority of those questioned? e. What percent of the people questioned had no opinion? Do you find this percent surprising? f. Do you think the results of the poll would be different if more or less people would have been questioned? How much different? |
| 3. The results of the polls are given as Why do you think percentages are used instead of the actual number of responses? |



- 4. Now that you have looked at two surveys, it is time to take your own survey. To do this, first pick a topic about which you want to find people's opinions. Together, the two of you should write six questions about the topic. The person answering the question should have to pick a certain response. Use either yes--no--no opinion answers or similar replies such as very favorable --ok-- unfavorable--terrible. Do not use a question like, "What is your opinion of a baseball?" unless you give them several choices from which one ans fer must be chosen.
- 5. Each person should then ask these questions to several people. One person asks questions to only men or boys and the second person asks only women or girls. A total of twenty-five people should be questioned in this survey.
- 6. Now that you have conducted the survey, you must record your answers in an easy-to-understand form. To do this, make a booklet with a cover. On page one of the book, write out question one. Then make a little table of responses for the women, showing how many people responded to each response. Do the same for responses of the man. Then combine the women and men to make a table of the total survey results. You will, then, have three tables of data.

On the same page, make a graph showing the results of the total responses for both sexes combined. You can choose whichever type of graph you want to make--a line graphy, a bar graph or a pictograph. Ask for help if you need it.

On page two, do the same thing with the second graph. The only change you should make is to use another type of graph than what you used on page one. Continue doing this for all six pages. Since there are three types of graphs and six pages, each type of graph will be used twice.

7. Now that you have completed the booklet, you have a complete record of your survey.

Using your booklet, write a one sentence summary of the response for each question:

- a.
- b.
- d.
- e.
- f.
- g.
- 8. Do you think the results of your poll would have been different if you had asked different people? ______ Explain.



YOU and the Work World of Math

Occupations Related to Math



YOU

and the Work World

of Math

Accountant Airline Dispatcher

Airline Pilots

Agricultural Economist

Agricultural Research Worker

Architect Astronmer

Baker Banker

Baseball Player Billing Clerk

Bill Collector

Boilermaker Bricklayer

Broadcast Technician

Buyer

Carpenter Cement Mason

Chemist

Claim Adjuster Computer Operator

Cook

Credit Agent

Dentist Dietician Doctor

Draftsperson

Electrical Engineer

Electrician Electroplater

Elevator Constructor Environmental Scientist

FBI Agent

Flood Control Expert

Historian

Home Economist

Industrial Designer

Industrial Machinery Repairperson

Inhalation Therapist
Instrument Repairperson

Insurance Broker

Insurance Salesperson

Interior Decorator

Landscape Architect

Lather

Lighting Expert

Lineworker (Electric Power)

Mechanic

Medical Laboratory Worker

Medical Technologist

Medical X-Ray Meter Reader Millwright

Navigator

Nurse

Optomotrist

Paymaster

Pharmacist Photographer

Physicist

Pipefitter

Pilot

Plasterer

Plumber

Podiatrist

Purchasing Agent

Psychologist

Real Estate Agent

Salesperson

Scientist

Seamstress

Sheet Metal Worker

Soil Conservationist

Statistician

Stenographer

Store Manager

Structural Iron Worker

Surveyor

System Analyst

Tailor

Teacher

Travel Agent

Underwriter

Urban Planner

